

ABSTRACT

The development of mobile broadband technology currently experiencing rapid progress in accordance with the human need for information. Technology General Packet Radio Service (GPRS) which is the development of GSM technology for internet services on users unreached area coverage or handset does not support 3G network. To determine the quality of a mobile network can use the test drive methods by looking at the signal value parameters RxLevel and RxQual. To determine the quality of the data it can be seen from the value of the maximum throughput speed of upload and download results. 2G signal coverage measurement results in the Bay area in Purwokerto not meet the standards Key Performance Indicator (KPI) set by the operator PT . AXIS tbk ie for values ≥ -85 dBm RxLevel not hit the target more than 80 % is 39.97 % while for RxQual ≥ 7 dBm has not reached the target of 80 % ie 49.02 % . EDGE maximum throughput value is 30 Kbps for uploading and EDGE maximum throughput value is 90 Kbps for download . Max throughput measurement results EDGE test download to the File Transfer Protocol (FTP) reached 29.8 Kbps , and thus for the download throughput value does not reach the target Key Performance Indicator (KPI) is 90 Kbps been set by the operator . As for the maximum throughput value is 10 Kbps GPRS upload and value for maximum throughput of 15 Kbps GPRS to download . Max throughput measurement results of a test GPRS download to the File Transfer Protocol (FTP) reached 8.1 Kbps , and thus for the download throughput value does not reach the target Key Performance Indicator (KPI) is 15 Kbps been set by the operator .

Keywords : *General Packet Radio Service (GPRS), RxLevel, RxQual, Enhanced Data Rates For GSM Evolution (EDGE), Throughput.*